

B&D Black & Decker®

OWNER'S MANUAL



Your Black & Decker Electric SCRUGUN® is a heavy-duty tool, capable of continuous production service on assembly operations. For disassembly work, there is a reversing switch conveniently located above the trigger switch. A wide variety of accessories—bits, sockets, nutsetters, extensions, etc., permit this tool to drive or remove practically any type of threaded fastener.

For personal safety and for proper operation of the Scrugun®, please take the time to carefully read all of the safety rules and instructions in this booklet. Don't forget to send in the guarantee registration card.

THANK YOU for buying BLACK & DECKER!

SCRUGUN® SCREWDRIVERS

COMMERCIAL/INDUSTRIAL USE WARRANTY

Black & Decker warrants this product for one year from date of purchase. We will repair without charge, any defects due to faulty material or workmanship. Please return the complete unit, transportation prepaid, to any Black & Decker Service Center or Authorized Service Station listed under "Tools Electric" in the yellow pages. This warranty does not apply to accessories or damage caused where repairs have been made or attempted by others.

IMPORTANT!

To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustment (including brush replacement) should be performed by BLACK & DECKER Service Centers or other qualified service organizations, always using BLACK & DECKER replacement parts.

FACTORY SALES & SERVICE CENTERS

Area Code	Telephone No.	Address	Area Code	Telephone No.	
ALABAMA	909	19 Cross Springs Highway	NEW JERSEY	201	256-9373
ARIZONA	602	137 E. McDowell Road	Union 07883	206	964-7040
CALIFORNIA	714	772-3040	Black 1405	518	785-1867
ILLINOIS	312	261-8650	Black 1405	518	785-1867
INDIANA	317	827-0083	Black 1405	518	785-1867
MISSOURI	616	894-9191	Black 1405	518	785-1867
NEW YORK	212	335-1042	Black 1405	518	785-1867
OHIO	614	444-3188	Black 1405	518	785-1867
PENNSYLVANIA	610	485-8544	Black 1405	518	785-1867
Texas	817	758-9175	Black 1405	518	785-1867
Virginia	703	533-1147	Black 1405	518	785-1867
Washington	206	282-6432	Black 1405	518	785-1867
Wisconsin	304	343-0289	Black 1405	518	785-1867



BLACK & DECKER MFG. CO., Limited, Canada
 BROOKVILLE, ONTARIO
 DON MILLS (Toronto)
 EDMONTON, ALBERTA
 HAMILTON, ONTARIO
 LONDON, ONTARIO

Perth St.
 1003 11th St.
 2 Valleybrook Drive
 11400 60th Street
 180 Paradise Ave., N.
 631 Commissioners Rd., East

7865 St. Lawrence Blvd.
 418 Laurier Avenue, West
 330 St. Hugh Street
 34 West 2nd Ave.
 594 St. James St.

THE BLACK & DECKER MFG. CO., TOWSON, MD. 21204, U.S.A.

Form No. 722152-04

(APR77-PS)

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LUBRICATION

Your tool was properly lubricated before leaving the factory. In from two to six months, depending upon use, take or send your tool to a Black & Decker Service Center, or Authorized Service Station, for a complete cleaning, inspection and relubrication. Tools used constantly on production jobs will need relubricating more often. Also, tools "out of service" for long periods should be relubricated before being put back to work.

CLEANING

With the unit motor running, blow dirt and dust out of all air vents with dry air at least once a week. Use safety glasses when doing this.

CAPACITY

These Scruguns can use practically every type of fastening accessory (bits, bit tip holders, shanks for sockets, etc.) with a 1/4" hex shank.

Two nose pieces are furnished with Depth Sensitive Models (Except Cat. Nos. 2035 & 2036). They will accept Hex Shank Bit Tip Holders, Nut Setters, and Hex Shank Insert Bits for the following screw types: Phillips, Frearson, Reed & Prince, Phillips Pozidriv, Socket Head, and Cap Screws. The smaller nose piece accepts these accessories in diameters up to 1/2"; the larger nose piece handles diameters up to 5/8". Slotted head screws cannot be driven with the depth sensitive mechanism.

FOR CAT. NO. 2056—Factory preset clutch assures 60 in. lbs. of torque for fast installation of NO HUB® couplings.

ACCESSORIES

Your Tool will handle a wide variety of bits and other fastening accessories. Some of these are listed below, but for the very many other types and sizes of accessories please see your Black and Decker Distributor, or refer to Black and Decker Industrial Catalog.

A. SQUARE DRIVE SHANKS —

1/4" HEX DRIVE SHANK

No. 20510 2" Overall Length, For 1/4" Square Drive Sockets

No. 20511 6" Overall Length, For 1/4" Square Drive Sockets



B. PHILLIPS HEAD BITS —

1/4" HEX DRIVE SHANKS

No. 54595 No. 1 Point, 1-15/16" Overall Length

No. 54592 No. 2 Point, 1-15/16" Overall Length

No. 54594 No. 3 Point, 1-15/16" Overall Length



C. BIT TIP HOLDERS —

1/4" HEX DRIVE SHANKS

No. 61108 Non-Magnetic, For 1/4" Bit Tips

No. 63957 Magnetic, For 1/4" Bit Tips



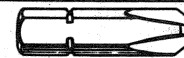
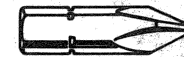
1/4" HEX DRIVE NUTSETTERS

CAT.	TYPE	SOCKET	LENGTH
61105	Non-Mag	1/4"	2-9/16"
61106	Non-Mag	5/16"	2-9/16"
61107	Non-Mag	3/8"	2-9/16"
65876	Magnetic	1/4"	2-9/16"
65877	Magnetic	5/16"	2-9/16"
65878	Magnetic	3/8"	2-9/16"



1/4" HEX BIT TIPS

D.	No.	Type	Point
	No. 38403	Phillips	No. 1 Point
	No. 38404	Phillips	No. 2 Point
	No. 38405	Phillips	No. 3 Point
E.	No.	Type	Point
	No. 61102	Phillips Pozidriv®	No. 2 Point
	No. 61104	Phillips Pozidriv®	No. 3 Point
F.	No.	Type	Point
	No. 38406	Frearson Type (Reed & Prince)	



SOCKETS (Use with Square Drive Shanks)

G.	Cat. No.	Type	Hex Size	Diam.
	20512	Non-Mag.	1/4"	1/2"
	20514	Non-Mag.	5/16"	1/2"
	20516	Non-Mag.	3/8"	9/16"
	38420	Magnetic	1/4"	7/16"
	38422	Magnetic	5/16"	1/2"
	38424	Magnetic	3/8"	9/16"



BLACK & DECKER ADJUSTABLE CLUTCH SCREWDRIVER OUTPUT CHART

(OPTIONAL CLUTCHES AVAILABLE THROUGH B&D SERVICE CENTERS)

CAT. NO.	RPM	CLUTCH ASSEMBLY	HARD JOINT* TORQUE (IN-LB)	SOFT JOINT** TORQUE (IN-LB)
2056	600	Standard 91142-01	35-150	18-140
		Optional 91142-00	8-40	5-24
		Optional 91142-02	5-17	5-15
2064	800	Standard 91142-01	35-150	18-140
		Optional 91142-00	8-40	5-24
		Optional 91142-02	5-17	5-15
2063	2500	Standard 91142-00	20-56	7-40
		Optional 91142-02	5-30	5-18

*Metal to metal fastening. A "slamming home" of the fastener.

**Wood screwing. "Gathering" or "Drawing Up" fastening operations.

CAUTION: Recommended accessories for use with your Scrugun are shown on this page, and in the Black & Decker Industrial Catalog. The use of any other accessory or attachment might be hazardous.

NOSE PIECES

FOR CAT. NO. 2060 SCRUGUN WHICH PROVIDE CLEARANCE NEEDED FOR USING 1/4", 5/16", 3/8" NUTSETTERS.

AVAILABLE FROM B&D SERVICE CENTERS.

90863	7/16" ID for 1/4 Hex Head Screws
87919	1/2" ID for 5/16 Hex Head Screws
87918	9/16" ID for 3/8 Hex Head Screws

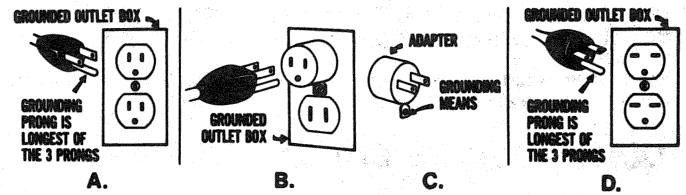
SAFETY RULES FOR POWER TOOLS

- KNOW YOUR POWER TOOL** — Read owner's manual carefully. Learn its applications and limitations as well as the specific potential hazards peculiar to this tool.
- GROUND ALL TOOLS — UNLESS DOUBLE-INSULATED.** If tool is equipped with three-prong plug, it should be plugged into a three-hole electrical receptacle. If adapter is used to accommodate two-prong receptacle, the adapter wire must be attached to a known ground. Never remove third prong.
- KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
- AVOID DANGEROUS ENVIRONMENT.** Don't expose power tools to rain. Don't use power tool in damp or wet locations. And keep work area well lit.
- KEEP CHILDREN AWAY.** All visitors should be kept safe distance from work area.
- STORE IDLE TOOLS.** When not in use, tools should be stored in dry, high or locked-up place — out of reach of children.
- DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
- USE RIGHT TOOL.** Don't force small tool or attachment to do the job of a heavy duty tool.
- WEAR PROPER APPAREL.** No loose clothing or jewelry to get caught in moving parts. Rubber gloves and footwear are recommended when working outdoors.
- USE SAFETY GLASSES** with most tools. Also face or dust mask if cutting operation is dusty.
- DON'T ABUSE CORD.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil and sharp edges.
- SECURE WORK.** Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
- DON'T OVERREACH.** Keep proper footing and balance at all times.
- MAINTAIN TOOLS WITH CARE.** Keep tools sharp, at all times, and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- DISCONNECT TOOLS.** When not in use, before servicing; when changing accessories such as blades, bits, cutters, etc.
- REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
- AVOID ACCIDENTAL STARTING.** Don't carry plugged-in tool with finger on switch. Be sure switch is off when plugging in.
- OUTDOOR USE EXTENSION CORDS.** When tool is used outdoors, use only extension cords suitable for use outdoors and so marked.
- DO NOT OPERATE** portable electric tools in gaseous or explosive atmospheres. Motors in these tools normally spark, and the sparks might ignite fumes.

GROUNDING

This tool should be grounded while in use to protect the operator from electric shock. The tool is equipped with an approved three-conductor cord and three-prong grounding type plug to fit the proper grounding type receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. Never connect the green (or green and yellow) wire to a live terminal. If your unit is for use on less than 150 volts, it has a plug like that shown in Figure A. If it is for use on 150 to 250 volts, it has a plug like that shown in Figure D. An adapter, Figures B and C, is available for connecting Figure A plugs to two-prong receptacles. The green-colored rigid ear, lug, etc., must be connected to a permanent ground such as a properly grounded outlet box. No adapter is available for a plug as shown in Figure D. Adapter shown in Figures B & C is Not for Use in Canada.

GROUNDING (continued)



We recommend that you **NEVER** disassemble the tool or try to do any rewiring in the electrical system. Any repairs should be performed only by B&D Service Centers or other qualified service organizations. Should you be determined to make a repair yourself, remember that the green colored wire is the "grounding" wire. Never connect this green wire to a "live" terminal. If you replace the plug on the power cord, be sure to connect the green wire only to the grounding (longest) prong on a 3-prong plug.

MOTOR

Your Black and Decker tool is powered by a B&D-built motor. Be sure your power supply agrees with voltage marked on nameplate. Volts 50/60 Hz means Alternating Current **ONLY**. Volts DC-60 Hz means it will also operate on Direct Current. Voltage variation of more than 10% will cause loss of power and overheating. All B&D tools are factory-tested; if this tool does not operate, check the power supply.

MOTOR BRUSHES

To inspect the carbon motor brushes, unplug the tool and remove the triangular brush inspection plates above the handle. The brushes should be replaced at a B&D Service Center if they are worn down to the groove or mark on the side of the brush. Brushes should be kept clean so that they slide freely in their guides. Brush springs must exert sufficient pressure to hold brush against motor commutator.

EXTENSION CORD

When using the tool at a considerable distance from power source, a 3-conductor, grounding-type extension cord of adequate size must be used for safety, and to prevent loss of power and over-heating. Use the table below to determine minimum wire size required.

Use only three wire extension cords which have three-prong grounding-type plugs and three-pole receptacles which accept the tool's plug. Replace or repair damaged cords.

Ampere rating (on nameplate)	0 to 2.0	2.10 to 3.4	3.5 to 5.0	5.10 to 7.0	7.10 to 12.0	12.1 to 16.0
Ext. Cable length	Wire Size (A.W.G.)					
25 ft.	18	18	18	18	16	14
50 ft.	18	18	18	16	14	12
75 ft.	18	18	16	14	12	10
100 ft.	18	16	14	12	10	—
150 ft.	16	14	12	12	—	—
200 ft.	16	14	12	10	—	—

SWITCHES

Pulling the Trigger Switch turns the tool "ON"; releasing the trigger turns the tool "OFF". To lock switch "ON", depress trigger, hold in locking button, and release trigger. Release button and tool will stay "ON". Then to turn tool "OFF", depress and release trigger. The Reversing Lever is located just above the trigger. Push this lever to the left for driving fasteners. Pushing the lever to the right reverses the motor rotation—for removing fasteners. The trigger switch must be released to the "OFF" position before using the reversing lever.

For maximum tool life avoid excessive reverse operation. For those operations where the tool is used primarily in reverse, see your Black and Decker Distributor or Black and Decker Service Center for tool alteration.

VARIABLE SPEED TRIGGER

The Variable Speed Trigger Switch permits "FREE HAND" speed control — the farther the trigger is depressed, the higher speed of the tool.

For maximum tool life, use lower speed only for starting the fastener. Continuous use at lower speeds is not recommended.

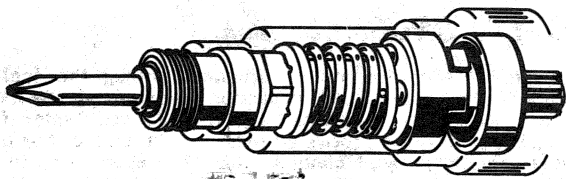
QUICK-CHANGE CHUCK (Ball Lock)

The quick-change chuck permits positive locking of the hexagonal bit shank in the chuck. It also permits quick insertion, removal or changing of this bit shank. Merely pull out the spring-loaded nose sleeve, and hold sleeve out while removing or inserting bits. Release the sleeve and an inserted bit is held firmly for driving or removing fasteners. This chuck is used on all models except Depth Sensitive Models.

OPERATION—CLUTCHES

In all Black and Decker Scruguns, a clutch provides a "dead" or stationary front spindle to permit the driving accessory to "locate" the screw slot or nut. Forward pressure then engages the clutch and drives the fastener.

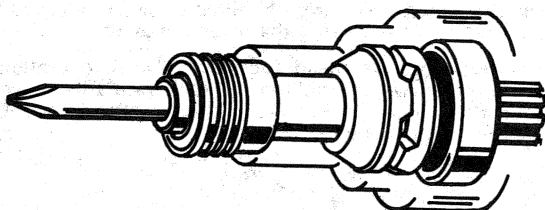
ADJUSTABLE CLUTCH— The adjustable clutch mechanism allows the operator to drive a series of fasteners to a pre-set uniform torque. Torque output is controlled mechanically by a spring loaded clutch mechanism and operator pressure on the tool has no effect on output. The adjustable clutch mechanism is also provided with a dead-spindle so that complete release of pressure on unit will disengage output spindle.



To adjust the clutch:

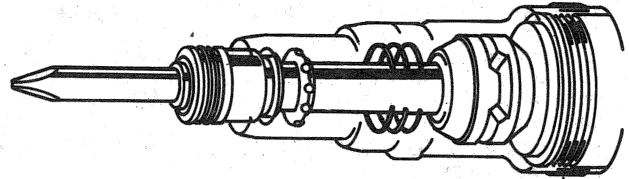
1. Unscrew clutch housing from gear case (left hand thread).
2. Slip clutch housing off of clutch assembly.
3. Remove clutch assembly from unit.
4. Insert $\frac{1}{4}$ " allen wrench into output shaft (or insert hex bit into output shaft and clamp bit in vise.)
5. Rotate adjusting nut to compress clutch spring to increase torque setting or in opposite direction to reduce torque setting.
6. **CAUTION:** Clutch may lock up at high torque setting. If this happens the high limits of the clutch has been exceeded and it will be necessary to reduce setting to a point that permits clutch to operate. Operate clutch manually before reassembly to insure that operating limit has not been exceeded.
7. Reassemble clutch on unit, slip clutch housing over clutch, and thread onto gear case hand tight.

POSITIVE CLUTCH—With this clutch, sufficient forward pressure is maintained on the unit, while driving, to keep the clutch jaws engaged. Depth Sensitive Models disengage the clutch jaws at the screw depth desired. With Positive Clutch models, a slight easing of forward pressure when the fastener has been driven home will permit the clutch jaws to disengage. If a tighter seating is desired, additional forward pressure will cause the clutch jaws to ratchet and the resultant hammering action will further tighten the fastener.



OPERATION—CLUTCHES (Continued)

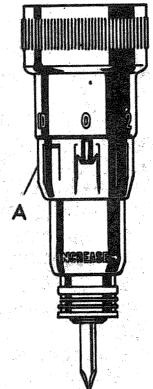
VERSA-CLUTCH—This clutch is very similar in action to the positive clutch units except with the added feature of adjustable engagement of the clutch jaws. This enables a much greater range of fastener sizes to be driven without the danger of stripout or twist off.



To Adjust The Clutch Engagement:

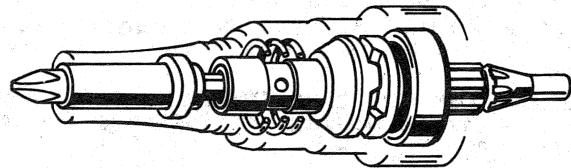
1. Pull collar ("A" in Figure at right) forward until collar lugs come out of engagement with holes in clutch housing.
2. Rotate collar and adjustable stop together in the desired direction to increase or decrease the amount of clutch engagement.

- NOTE:** Numbers on clutch housing and indicator line on locator collar do not represent any preset value. The depth of engagement is approximately .004" between holes or .008" from number to number.
3. Test drive a screw into a piece of scrap to check setting.
 4. If necessary, readjust to obtain desired setting.



DEPTH SENSITIVE MODELS

These units permit quick and easy adjustment for seating fasteners uniformly to the proper depth without shearing or stripping. Bits are inserted into the hexagonal holder in the locator by pushing on the bit.



To adjust the Depth Sensitive Mechanism:

1. Pull collar ("A" in figure at right) forward until collar lugs come out of engagement with holes in clutch housing.
2. Rotate collar in proper direction until tip of bit or socket is protruding slightly in front of locator (locator rotates with collar).
3. Release collar to engage projections in holes in clutch housing.
4. Test drive a screw into a piece of scrap to check setting.
5. If necessary, readjust to obtain desired setting (depth adjustment is approximately .004" between each hole position).

